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August 10, 2001

TO:

FROM: Joseph C. Helfrich, Biologist & Team Lead

RE: Railroad Crossing, Savage Industries Inc., Savage Coal Terminal
AM01E

SUMMARY:

On June 22, 2001, the Division received an application to install an additional railroad crossing and culvert to reduce loader travel between the coal storage areas at the Savage Coal Terminal. The proposal includes the addition of one culvert to be placed in ditch CD-10. Other than the addition of culvert C-26 there are no new structures proposed for this amendment. This document provides the technical analysis of the proposed railroad crossing.

TECHNICAL ANALYSIS

OPERATION PLAN

EXISTING STRUCTURES

Regulatory Reference: 30 CFR 784.12; R645-301-526.

Analysis:

The proposed location of the crossing is shown on plate 3-2 of the current operation and reclamation plan and the new culvert is labeled C-26. The crossing is located approximately 200' West of the crossover conveyor along the loop track. The area is currently disturbed. The crossing will reduce loader travel and potential dust emissions by allowing better access to the coal piles north and south of the railroad tracks.

TECHNICAL MEMO

Findings:

The information provided in the application is adequate to meet this section of the regulations.

ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES

Regulatory Reference: 30 CFR Sec. 784.24, 817.150, 817.151; R645-301-521, -301-527, -301-534, -301-732.

Analysis:

Current access to the coal piles is time consuming in that travel to the crossing at the East end of the yard is required to gain access to either the North or South coal piles. Diversion ditch CD-10 runs parallel to the loop track and will require an 18" culvert to facilitate the crossing. Culvert C-26 will be installed at the crossing. The design specifications for the culvert are provided for in table 7-25.

Findings:

The information provided in the application is adequate to meet this section of the regulations.

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Diversions

As noted in the previous section one 18" culvert will be installed at the crossing. The proposed culvert is shown on Plate 3-10, labeled C-26. The culvert has been sized consistent with the other culvert in diversion ditch #CD-10 and approved for the projected runoff volumes. Design specifications are provided for in table 7-25

Findings:

The information provided in the application is adequate to meet this section of the regulations.

MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

Analysis:

Plate 3-2 provides for the location of the proposed railroad crossing. The plate also includes the addition of culvert C-26.

Findings:

The information provided in the application is adequate to meet this section of the regulations.

RECLAMATION PLAN

ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES

Regulatory Reference: 30 CFR Sec. 701.5, 784.24, 817.150, 817.151; R645-100-200, -301-513, -301-521, -301-527, -301-534, -301-537, -301-732.

Analysis:

This amendment involves the addition of a railroad crossing at the Rail Loadout facility; as such no changes to current reclamation plan are anticipated. The area affected by the crossing is currently disturbed and accounted for in the reclamation plan.

Findings:

The information provided in the application is adequate to meet this section of the regulations.

RECOMMENDATION:

TECHNICAL MEMO

The amendment is recommended for approval in its present form.

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